

FortiSandbox 2000E

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- New product features
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- Nouvelles fonctionnalités du produit
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本日、フォーティネット製品の登録をしてください。

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テクニカルサポート • 新機能の追加 • 新しい脅威への防御

请马上注册

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<https://support.fortinet.com>

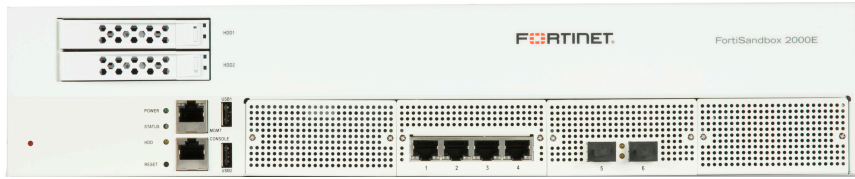
Toll free: 1 866 648 4638

Phone: 1 408 486 7899

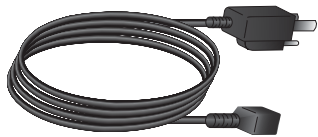
Fax: 1 408 235 7737

Email: register@fortinet.com

Box Includes



FortiSandbox 2000E



2 Power Cables



6 M4 Flat Head Screws



Console Cable



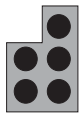
4 M4 Waffle Head Screws



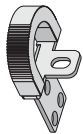
Ethernet Cable



2 M6 Screws



Rubber Feet

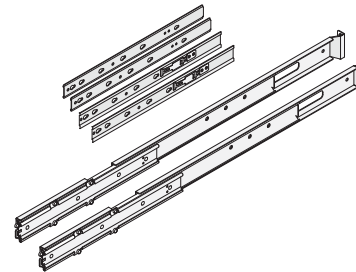


2 Sliding Rail Handles

Box Includes



QuickStart Guide



Rail Mount Kit

1 Installation

The FortiSandbox unit can be placed on a [flat surface](#) using the provided [rubber feet](#), or mounted in any standard [19 inch rack](#) unit with the provided mounting hardware.

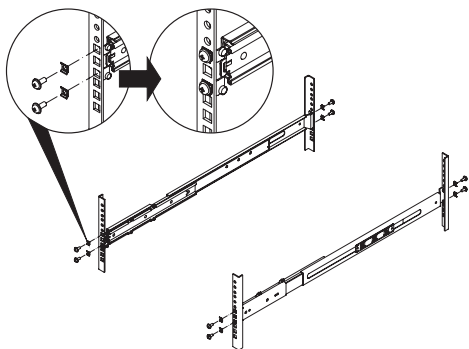
Caution: [Electrostatic discharge](#) (ESD) can damage your Fortinet equipment.

To avoid personal [injury](#) or [damage](#) to the unit, it is recommended that two or more people install the unit into the rack.

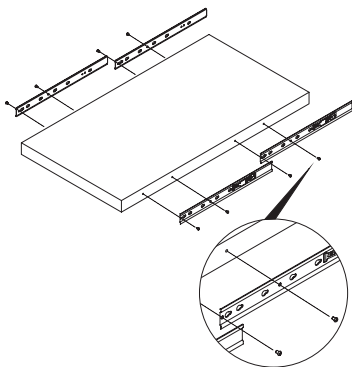
Do not place heavy objects on the unit.

To install the unit into a rack

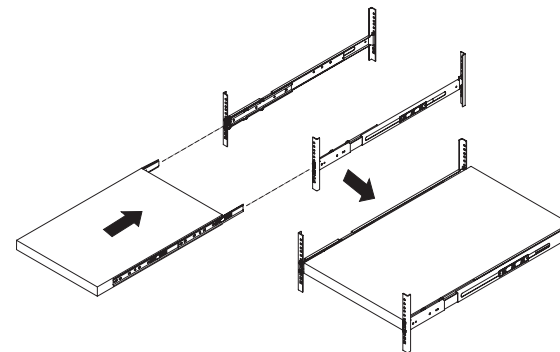
1. Verify there is enough room around where the unit will be mounted to allow for sufficient air flow.
2. Mount the [outer rails](#) to the rack.



3. Attach the [inner rails](#) to the device using the provided [M4 waffle head screws](#).



4. Attach the [rail handles](#) to the device using the provided [M4 flat head screws](#).
5. Check that the inner rails are properly connected to the device and that the outer rails are securely attached to the rack.
6. Align the inner rails with the outer rails then slide the device onto the rails. Ensure that even pressure is applied to both sides of the device while doing this.

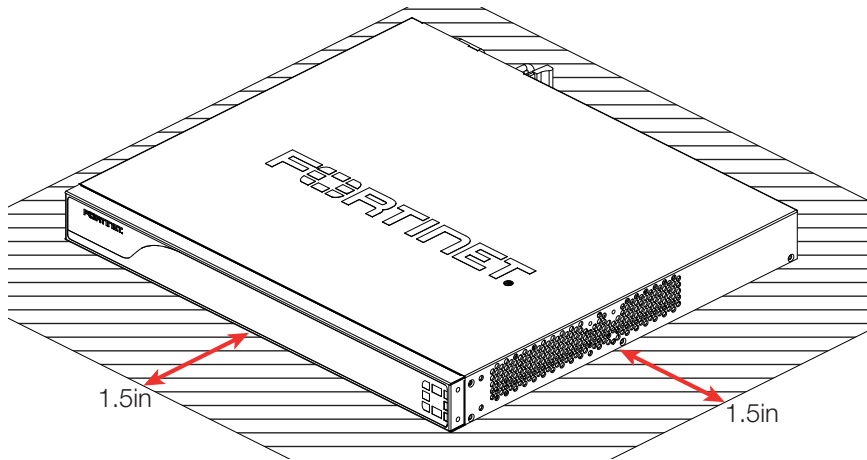


7. For additional security, insert and tighten the provided [M6 screws](#) to hold the front of the unit to the rack.
8. Plug the provided [power cables](#) into the rear of the unit, and then into [grounded electrical outlets](#) or separate power sources, such as an [uninterruptible power supplies](#) (UPS) or a [power distribution units](#) (PDU).

Note: Each [power cable](#) should be connected to a different [power source](#). In this way, if one power source fails, the other may still be operational and the unit will not lose power.

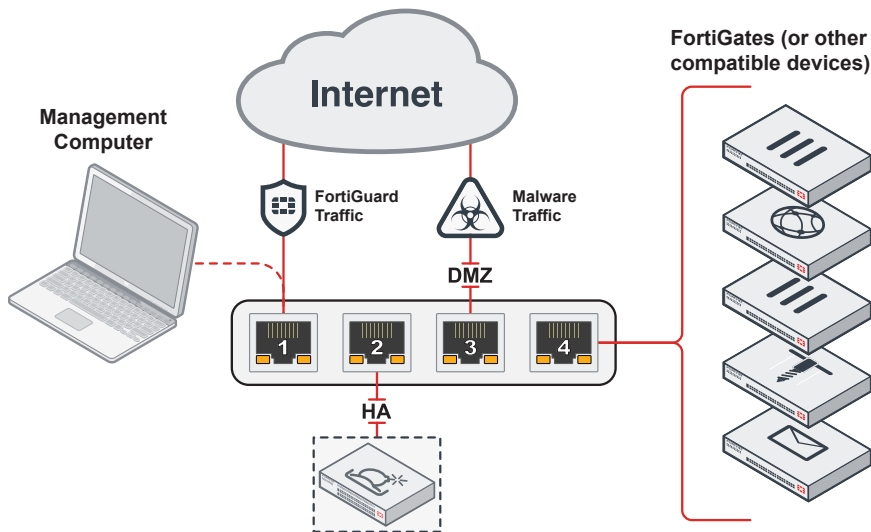
To install the unit on a flat surface

1. Ensure that the surface onto which the FortiSandbox unit to be installed is clean, level, and stable and that there is at least **1.5in (3.8cm)** of clearance on all sides to allow for adequate airflow.
2. Attach the provided **rubber feet** to the bottom of the FortiSandbox unit.
3. Place the unit in the designated location.
4. Verify that the spacing around the FortiSandbox unit conforms to requirements and that the unit is **level**.
5. Plug the supplied **power cables** into the rear of the unit and then into **grounded electrical outlets** or **separate power sources**, such as uninterruptible power supplies (UPS) or power distribution units (PDU).



Note: Each **power cable** should be connected to a different **power source**. In this way, if one power source fails, the other may still be operational and the unit will not lose power.

2 Connections



Connect your device as follows:

Port	Connection
1	Connect a management computer to configure the device using the GUI . Connect to the Internet to access FortiGuard and FortiCare.
2	High Availability (HA) connection.
3	The VM outgoing port allows possibly malicious connections to connect to the Internet. This port should be connected through an isolated network .
4 and up	Connect FortiGate or other devices. Optionally, can be used as sniffer ports.

Note: The FortiSandbox unit requires some [basic configuration](#) to add it to your network, including assigning [IP addresses](#), DNS settings, and the [default gateway](#). Until these steps are completed traffic will not flow through the device.

[Ethernet port 1](#) only supports HTTPS, HTTP, SSH, and Telnet services. With the exception of HTTPS, these services can be [disabled](#) using the [GUI](#).

3 Setup Options

- A** Web Browser

Setup Wizard (p.11)

B Terminal Emulator

CLI Console (p.12)

A Web Browser

To Connect to the Device Manager

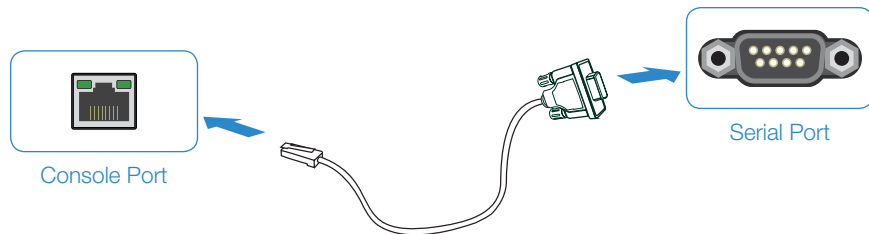
1. Connect the [Ethernet cable](#).
2. Configure the management computer to be on the same [subnet](#) as the internal interface as the FortiSandbox unit:

IP address: 192.168.0.99

Netmask: 255.255.255.0

3. Visit [192.168.0.99](#) in your web browser.
4. Login using username ["admin"](#) and [no password](#).
5. [Configure your device](#) and save your settings.
6. [Register your device](#) on the FortiCare website.

B Terminal Emulator



To Connect to the CLI

1. Connect the device's **console port** to the management computer using the provided **console cable**.
2. Start a **terminal emulation program** on the management computer, select the **COM port**, and use the following settings:

Baud Rate: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow Control: None

3. Press **Enter** on your keyboard to **connect to the CLI**.
4. Login using username **"admin"** and no password. You can now proceed with configuring your device.

A limited CLI is available for basic device configuration and **debugging** purposes. The FortiSandbox device is primarily configured using the **GUI**.

```

108.88.88.88
> help
FortiSandbox Console
General:
  help      Display this text.
  ?         Synonym for 'help'.
  exit      Exit from the CLI.
Configuration:
  show      Show bootstrap configuration.
  set        Set configuration parameter.
Available attributes/values for set:
    port1-ip <IP/netmask>
              e.g. port1-ip 1.2.3.4/24
    port2-ip <IP/netmask>
              e.g. port2-ip 1.2.3.4/24
    port3-ip <IP/netmask>
              e.g. port3-ip 1.2.3.4/24
    port4-ip <IP/netmask>
              e.g. port4-ip 1.2.3.4/24
    port5-ip <IP/netmask>
              e.g. port5-ip 1.2.3.4/24
    port6-ip <IP/netmask>
              e.g. port6-ip 1.2.3.4/24
    port7-ip <IP/netmask>
              e.g. port7-ip 1.2.3.4/24
    port8-ip <IP/netmask>
              e.g. port8-ip 1.2.3.4/24
    default-gw <IP>
              e.g. port8-ip 1.2.3.4/24
    date       <YYYY-MM-DD>
    time       <HH:MM:SS>
  
```

Useful CLI Commands

help	Show a list of valid CLI commands.
show	Show the bootstrap configuration including the port IP address (IPv4), network mask, and default gateway.
set port1-ip <ip>/<netmask>	Set the port 1 IP address and netmask.
set portX-ip <ip>/<netmask>	Set the port x IP address and netmask.
set default-gw <ip>	Set the default gateway.
reboot	Reboot the FortiSandbox. All sessions will be terminated.
shutdown	Shut down the FortiSandbox.
status	Show various system information.

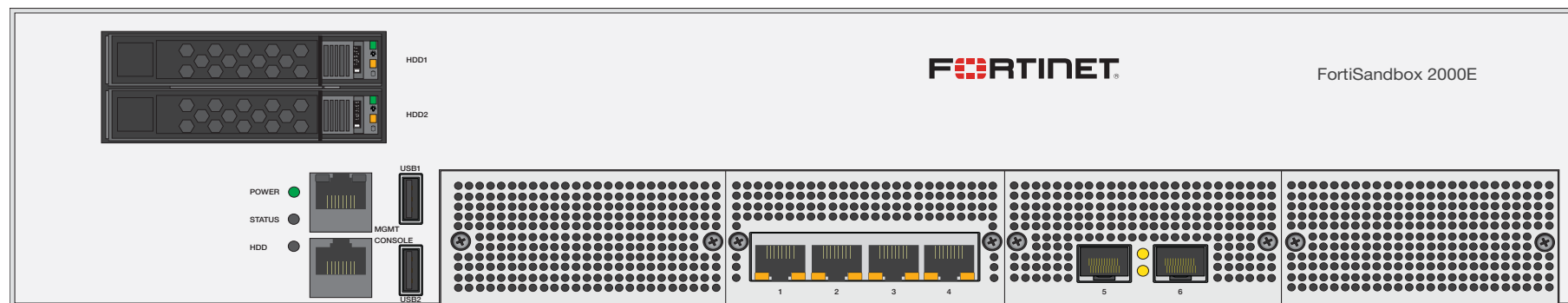
For example, to configure the **IP address** and **gateway** of the FortiSandbox device, use the following commands:

```

set port1-ip 192.168.0.10/24
set default-gw 192.168.0.1
  
```

HDD 1 & 2

Two 2TB hard disk drives



USB (USB A)

Not in use

MGMT Port

Not in use

Console Port (RJ-45)

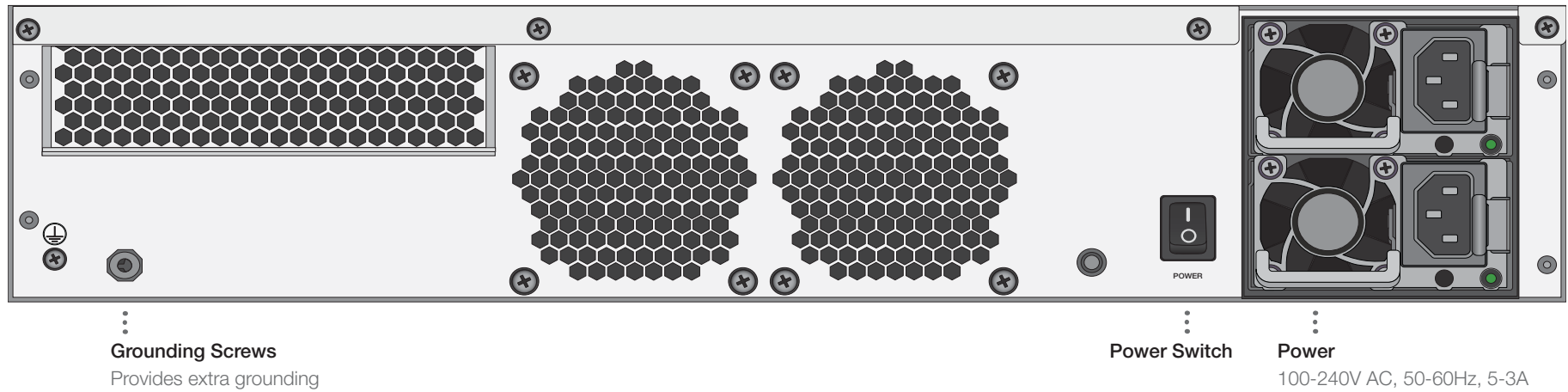
Optional connection to the management computer
Provides access to the CLI

Ethernet Ports 1 - 4 (RJ-45)

Gigabit Ethernet network connections

SFP+ Ports 5 (Bottom) and 6 (Top)

10Gbps small form-factor pluggable
transceiver ports without bypass function

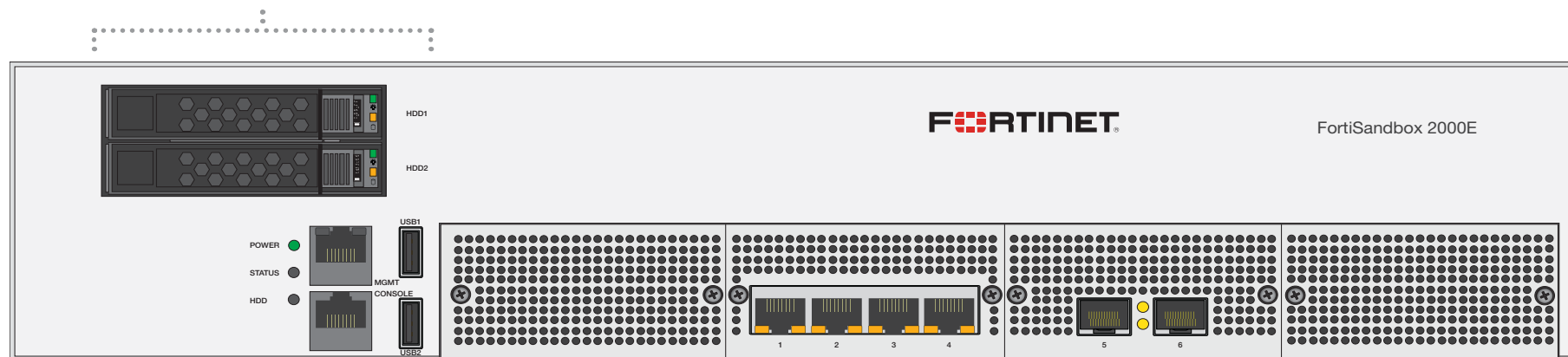


💡 Hard Disk Power (Top)

- **Green:** Power supply normal
- **Off:** Power supply disconnected

💡 Hard Disk Activity (Bottom)

- **Flashing Amber:** Hard disk in use
- **Off:** Hard disk not detected



Power

- **Green:** The unit is on
- **Off:** The unit is off

Status

- **Not in use**

HDD

- **Not in use**

SFP+ Ports 5 (Bottom) and 6 (Top)

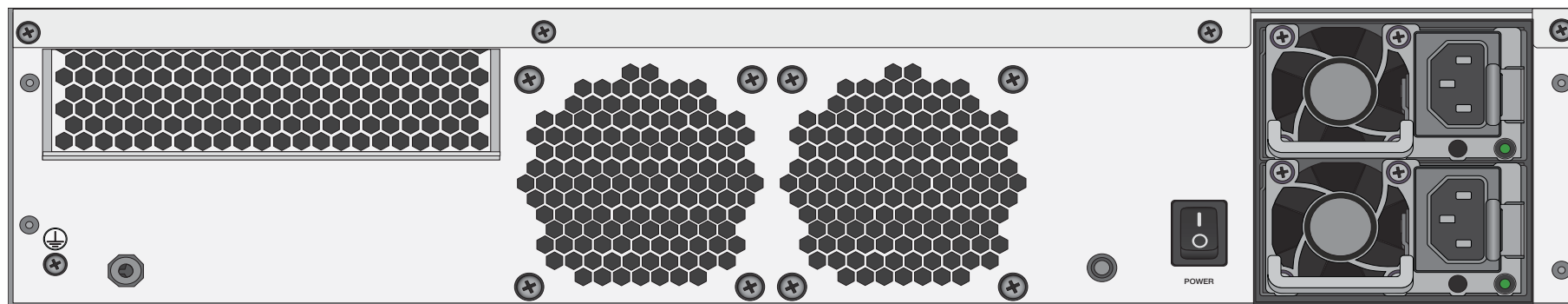
- **Amber:** Connected
- **Flashing Amber:** Transmitting & receiving data
- **Off:** No link established

Ethernet Ports Link/Activity (Left)

- **Flashing Amber:** Transmitting & receiving data
- **Off:** No link established

Ethernet Ports Speed (Right)

- **Amber:** Connected at 1Gbps
- **Green:** Connected at 100Mbps
- **Off:** Connected at 10Mbps or not in use



Power Supply Status

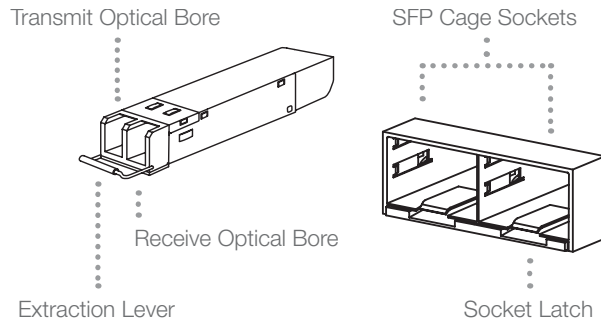
- **Green:** Power supply operating normally
- **Red:** Power supply is not connected or failure
- **Off:** Not Powered

SFP Transceivers

Caution: SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

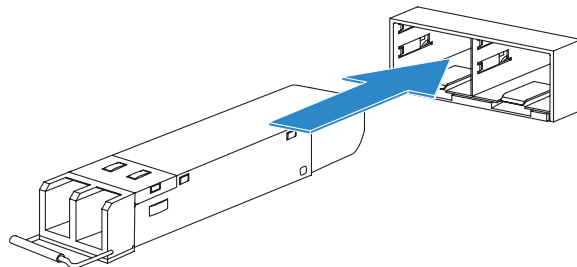
Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

Note: Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.



To install the SFP transceivers

1. Ensure that you are properly grounded.
2. Remove the caps from the SFP cage sockets on the front panel of the unit.
3. Position the SFP transceiver in front of the cage socket opening and ensure that the transceiver is correctly oriented. When the transceiver is correctly oriented, the extraction lever will be level with the socket latch.
Note: SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.
4. Hold the sides of the SFP transceiver and slide it into the cage socket until it clicks into place.

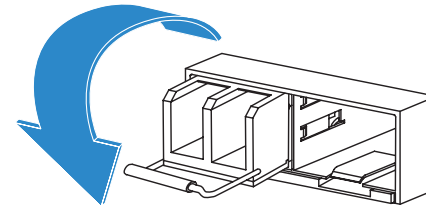


5. Press the transceiver firmly into the cage socket with your thumb.

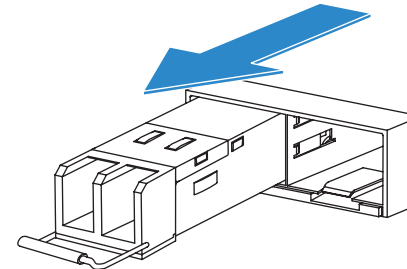
6. Verify that the transceiver is latched correctly by grasping the sides of the transceiver and trying to pull it out without lowering the extraction lever. If the transceiver cannot be removed, it is installed and latched correctly. If the transceiver can be removed, reinsert it and press harder with your thumb. If necessary, repeat this process until the transceiver is securely latched into the cage socket.

To remove the SFP transceivers

1. Ensure that you are properly grounded.
2. If applicable, disconnect the fiber-optic cable from the transceiver connector and install a clean dust plug in the transceiver's optical bores.
3. Pull the extraction lever out and down to eject the transceiver. If you are unable to use your finger to open the lever, use a small flat-head screwdriver or other similar tool to open the lever.



4. Hold the sides of the transceiver and carefully pull it away from the cage socket.



5. Replace the cap on the SFP cage socket and place the removed SFP transceiver into an antistatic bag.

Caution: Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

Note: Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

Cautions and Warnings

Environmental Specifications

Ambient operating temperature: 0C to 40C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
Température ambiante élevée - S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (Tma) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
Ventilation réduite - Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
Chargement Mécanique - Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
Surtension - Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).
Fiabilité de la mise à la terre- Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Moving parts — Hazardous moving parts. Keep away from moving fan blades.
Pièces mobiles – Pièces mobiles dangereuses. Se tenir éloigné des lames mobiles du ventilateur.

Warning: Equipment intended for installation in Restricted Access Location.
Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

Caution: Disconnect power supply cords before servicing
Attention: Débranchez les cordons de la source d'alimentation avant tout entretien.

Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space.

Attention: Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

Regulatory Compliance

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Product Safety Electrical Appliance & Material (PSE) - Japan

日本では電気用品安全法 (PSE) の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

Voluntary Control Council for Interference (VCCI) – Japan

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Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

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The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:
<https://www.fortinet.com/bsmi>

China

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